IN THE CLAIMS:

1. (Previously Presented) A photomask etch chamber, comprising:

a substrate support member disposed inside the chamber, wherein the substrate support member is configured to support a photomask substrate;

a ceiling disposed on the chamber; and

an endpoint detection system configured to detect one or more test patterns disposed on a peripheral region of the photomask substrate.

- 2. (Original) The chamber of claim 1, wherein the endpoint detection system is disposed through a peripheral region of the ceiling and positioned directly above the peripheral region of the photomask substrate.
- 3. (Original) The chamber of claim 1, wherein the endpoint detection system is disposed through a peripheral region of the substrate support member and positioned directly below the peripheral region of the photomask substrate.
- 4. (Original) The chamber of claim 1, wherein the endpoint detection system is an interferometer endpoint detection system.
- 5. (Previously Presented) A photomask etch chamber, comprising:

a substrate support member disposed inside the chamber, wherein the substrate support member is configured to support a photomask substrate;

a ceiling disposed on the chamber; and

an interferometer endpoint detection system disposed through a peripheral region of the ceiling, wherein the interferometer endpoint detection system is configured to detect one or more test patterns disposed on a peripheral region of the photomask substrate.

- 6. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system is disposed directly above a corner region of the photomask substrate.
- 7. (Original) The chamber of claim 5, wherein the photomask substrate is about 6 inches wide and about 6 inches long and the interferometer endpoint detection system

is disposed about 2.8 inches from a horizontal center line and about 2.8 inches from a vertical center line of the photomask substrate.

- 8. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system is disposed directly above a peripheral region of the photomask substrate.
- 9. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system is configured to detect a peripheral region of the photomask substrate.
- 10. (Cancelled)
- 11. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system is configured to detect one or more test patterns disposed on a corner region of the photomask substrate.
- 12. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system comprises:
 - a light source for sending a light beam to a surface of the substrate; and
- a light detector for measuring the intensity of the light beam reflected from the substrate surface.
- 13. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system further comprises a focusing assembly for focusing the light beam to a spot on the substrate surface.
- 14. (Original) The chamber of claim 5, wherein the interferometer endpoint detection system further comprises a computer for calculating at least a portion of the waveform spectra of the reflected light beam.
- 15. (Original) The chamber of claim 14, wherein the computer is configured to compare the waveform spectra of the reflected light beam with a stored characteristic waveform spectra pattern.
- 16. (Currently Amended) A photomask etch chamber, comprising:

a substrate support member disposed inside the chamber, wherein the substrate support member; is configured to support a photomask substrate; and

a photomask substrate disposed on the substrate support member and having one or more test patterns disposed on a peripheral region;

an interferometer endpoint detection system disposed through a peripheral region of the substrate support member configured to detect the one or more test patterns disposed on the phoromask substrate.

- 17. (Original) The chamber of claim 16, wherein the interferometer endpoint detection system is disposed directly below a corner region of the photomask substrate.
- 18. (Original) The chamber of claim 16, wherein the photomask substrate is about 6 inches wide and about 6 inches long and the interferometer endpoint detection system is disposed about 2.8 inches from a horizontal center line and about 2.8 inches from a vertical center line of the photomask substrate.
- 19. (Currently Amended) The chamber of claim 16, wherein the interferometer endpoint detection system is disposed directly below a below the peripheral region of the photomask substrate.
- 20. (Original) The chamber of claim 16, wherein the interferometer endpoint detection system is configured to detect a peripheral bottom region of the photomask substrate.
- 21. (Cancelled)
- 22. (Currently Amended) The chamber of claim 16, wherein the interferometer endpoint detection system is configured to detect the one or more test patterns disposed on a corner region of the photomask substrate.
- 23-27. (Cancelled)